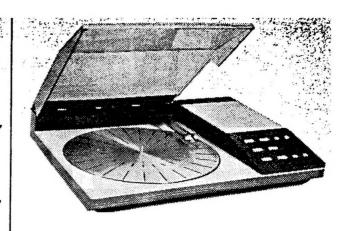
Beogram 8002 Type 5631/32/33/34/35/36/37

Beogram 8000 Type 5611/12/13/14/15/16/17

Beogram 6006 Type 5621/22/23/24/25/26/27





INDHOLD	
	Diagram og printtegninger 1 Transistorer, IC'er og dioder 2 Elektrisk stykliste 3 Mekanisk stykliste 4 Justeringer 5 Tekniske specifikationer 6 Adskillelse 7 Servicetips og isolatonstest 8
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	Schaltbild und Printplatten
TABLE DES MATIERES	
	Schéma et circuits imprimés1Transistors, IC's et diodes2List des pièces détachées électriques3Liste des pièces détachées mecaniques4Réglages5Caractéristiques techniques6Démontage7Servicetips et test d'isolation8

1-1

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DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde, hvor typenummeret er entydigt for komponentens placering i kredsløbet – f. eks. TR20/BC 557B.

Hvis positionsnummeret er efterfulgt af en stjerne **skal** reservedelsnummeret benyttes, da denne komponent er specielt udvalgt – f. eks. TR102*.

Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret – f. eks. B3).

EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry -e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number must be used because this component has been expecially selected – e.g. TR102*.

Co-ordinate System

The largest PC-boards have been provided with a co-ordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PC-board (smaller typing than position numbers – e.g. B3).

ERLÄUTERUNGEN ZUM SCHALTBILD

Auf dem Schaltbild sind Typen-Nummern für Transistoren und IC's in den Fällen angegeben, in denen die Typen-Nummer für die Placierung der Komponente in einem Schaltkreis eindeutig ist – z.B. TR20/BC 557B.

Wenn auf die Positionsnummer ein Stern folgt, ist die Ersatzteilnummer zu benutzen, da diees Komponente speziell ausgewählt werden ist -z. B. TR102*.

Koordinatensystem

Die grössten Printplatten sind mit einem Koordinatensystem versehen. Die Komponenten auf diesen Printplatten sind auf dem Schaltbild mit einer Koordinatennummer versehen, die erhält, in welcher Koordinate der Printplatte sie angebracht sind (kleinere Schrifttype als die der Positionsnummer – z.B. B3).

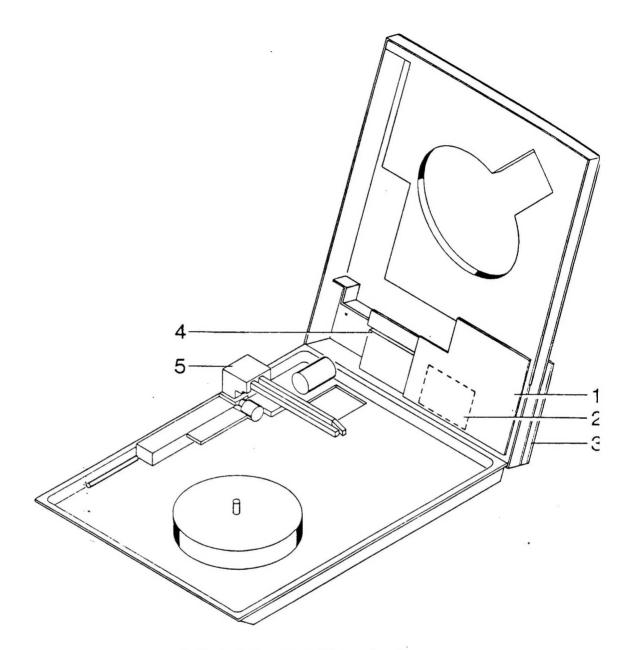
NOTICE EXPLICATIVE DES SCHEMAS

Sur les schémas, les numéros de types sont indiqués pour les transistors et les circuits intégiés dans les cas où le numéro de type est univoque pour la disposition du composant dans un circuit – par example TR20/BC557B.

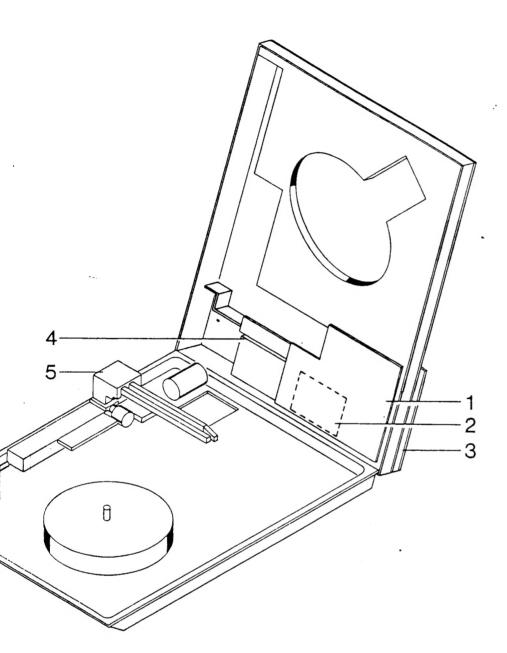
Si le numéro de position est suivi par un astérisque, il faut utiliser le numéro de la piece de rechange, étant donné qu'il agit dès lors d'un composant spécialement sélectionné – par example TR102*.

Systèm de coordonnées

Les plus grands circuits imprimés sont munis d'un système de coordonnées. Les composants de ces circuits imprimés portent un numéro de coordonnée sur le schéma qui indiquent dans quelle coordonnées ils sont placés sur le circuit imprimé (en caractères plus petit que ceux qui indiquent le numéro de position — par example B3).

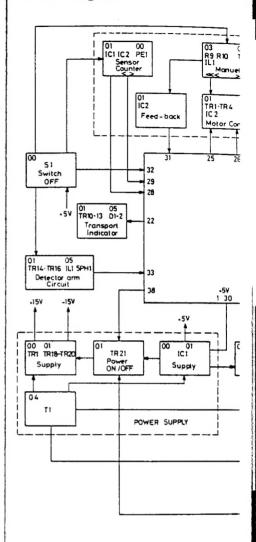


- 1. Control Circuits and Power Supply
- 2. Microcomputer
- : 3. Operating Panel
 - 4. Mains Transformer
 - 5. Sliding Chassis



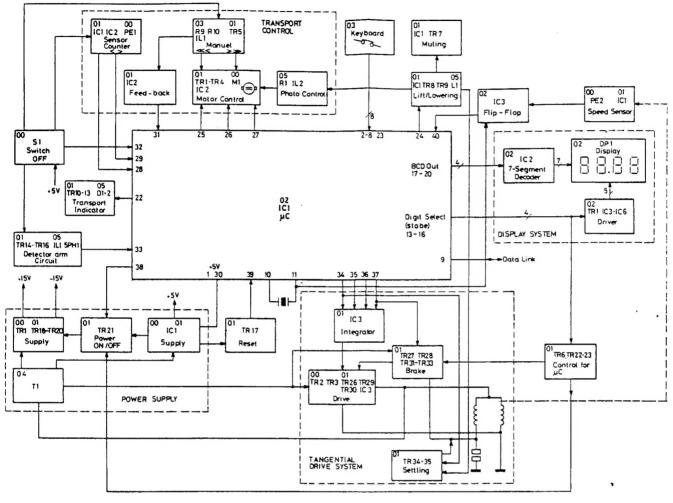
- 1. Control Circuits and Power Supply
- 2. Microcomputer
- : 3. Operating Panel
 - 4. Mains Transformer
 - 5. Sliding Chassis

Block Diagram



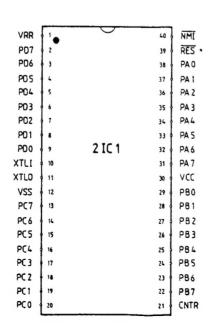
2IC1 Pin Configuration

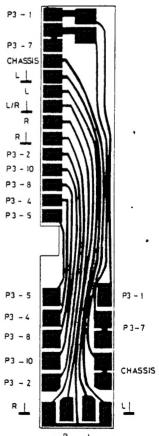
Block Diagram

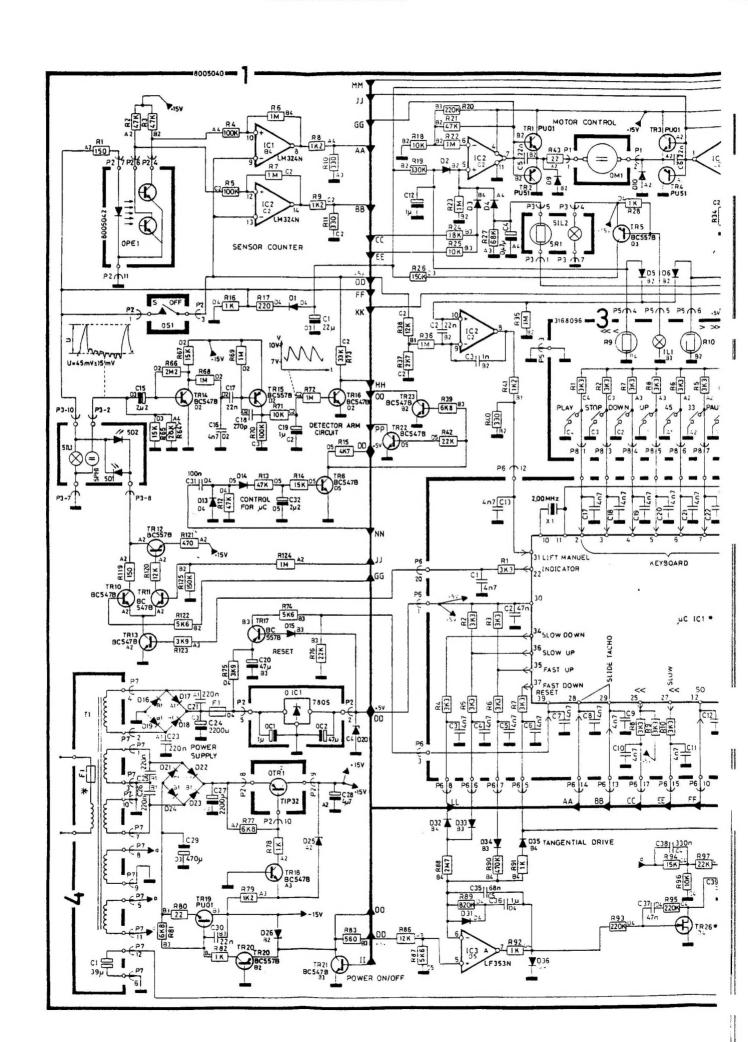


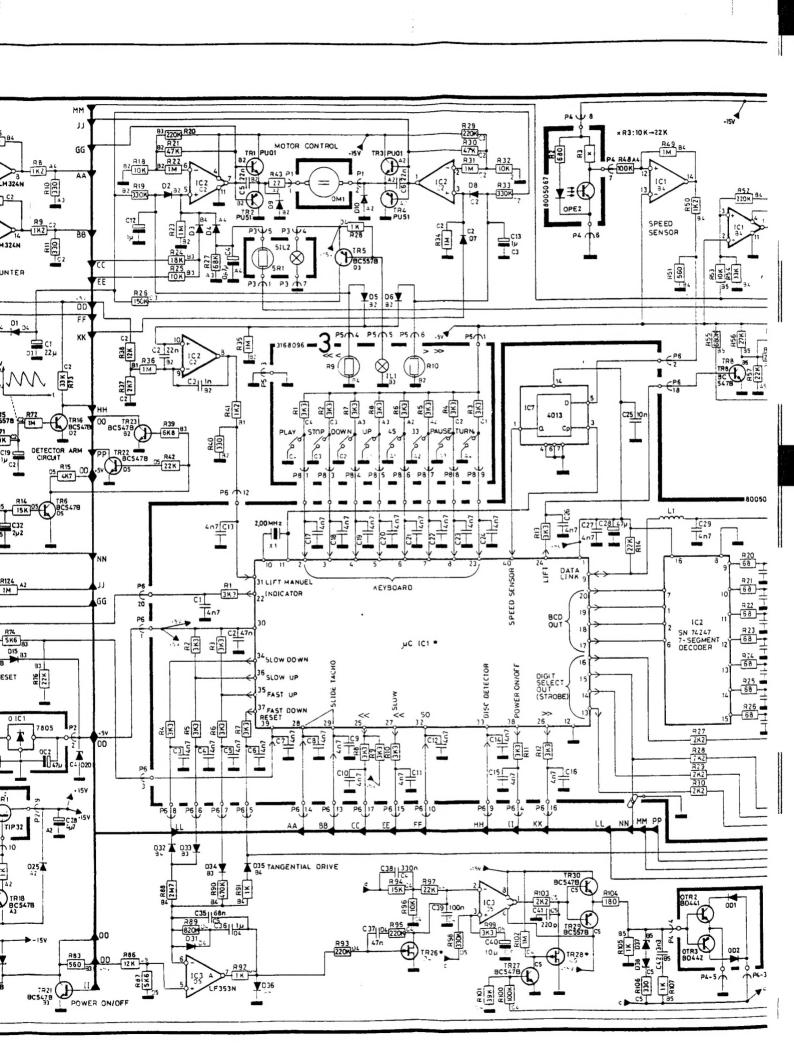
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

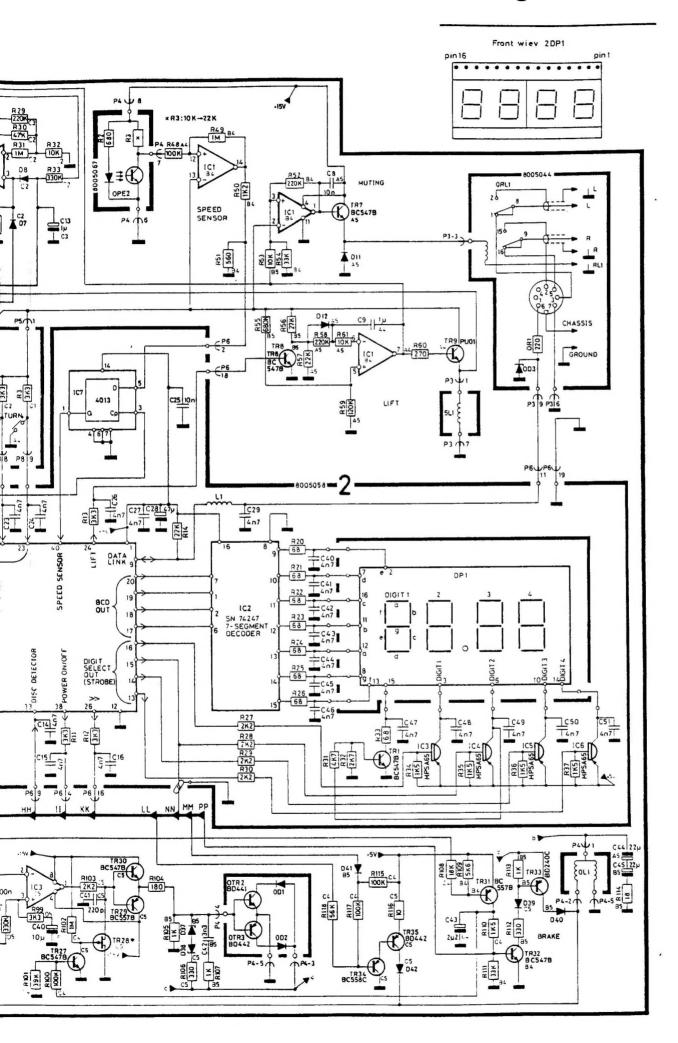
2IC1 Pin Configuration



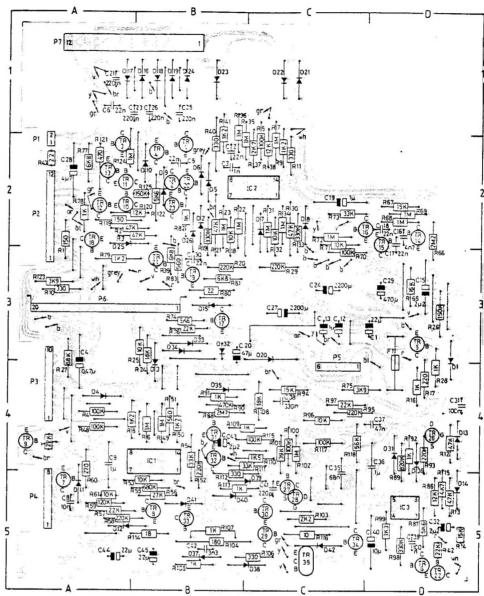




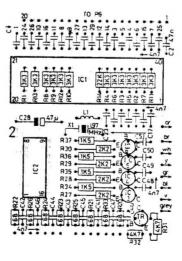




PCB1, Control Circuits and Power Supply



PCB2, Microcomputer



 $PC\mbox{-}Boards \ are seen from \ copperfoil\mbox{-}side.$

FUNCTION	FUNCTION TABLE								742	47)	
DECIMAL		INP	JTS			(TUC	PUT	S		
ON DISPLAY	D	С	8	Α	α	b	С	d	е	f	g
0	0	0	0	0	0	0	0	0	0	0	1
1	0	0	0	1	1	0	0	1	1	1	1
2	0	0	1	0	0	0	1	0	0	1	0
3	0	0	1	1	0	0	0	0	1	1	0
4	0	1	0	0	1	0	0	1	1	0	0
5	0	1	0	1	0	1	0	0	1	0	0
6	0	1	1	0	0	1	0	0	0	0	0
7	0	1	1	1	0	0	0	1	1	1	1
8	1	0	0	0	0	0	0	0	0	0	0
9	1	0	0	1	0	0	0	0	1	0	0
	1	1	1	1	1	1	1	1	1	1	1

Explanation of the fuse symbols used in the set:

Explanation des symboles du fusible utilisés dans l'appareil:

	T 300mA	M
	250V	M

Replace with same type 300 mA - 250 V slow acting fuse.

Remplacer par un fusible de même type retardé et de 300 mA - 250 V

T800mA	
250V	

Replace with same type 800 mA - 250 V quick acting fuse.

Remplacer par un fusible de même type rapide et de 800 mA - 250 V.

4C1	4F1★	Туре
39 µF	300 mA-S	5631
27μF	300 mA-S	5632
27µF	300 mA-S	5633
39 µF	315 mA-S	5634
39 µF	160 mA-S	5635
39 µF	160 mA-S	5636
39 µF	160 mA-S	5637 (AUS)

*0R3 10 - 33 kohms

SEMICONDUCTORS

Transistors and IC's

19	20	21	≥ 32	33	- 35 = I	10		102
C • • • • • • • • • • • • • • • • • • •	c B		△ F C 8	B C E	O BCE	16	3	Ž ,
103	105	124	77.2	Na Ed				
8 5	1N 1 OUT	21						
0TR1	8320257	3 TIP	32	1TR21-23	8320097	20	BC 5	547B
OTR2	8320442	32 BD	441	1TR26	8320449	21	BF 2	!44C
OTR3	8320443	32 BD	442	1TR27	8320097	20	BC 5	347B
0IC1	8340065 1			1TR28	8320466	21	J 175	5
	1	105 MC	7805 UC 7805 CT	1TR29	8320152	20	BC 5	57B
	1	05 UA		1TR30	8320097	20	BC 5	i47B
1TR1	8320422 1	9 PU (01	1TR31	8320152	20	BC 5	57B
1TR2	8320423 1	9 PU 5	51	1TR32	8320097	20	BC 5	47B
1TR3	8320422 1	9 PU ()1	1TR33	8320447	35	BD 2	40C
1TR4	8320423 1	9 PU 5	51	1TR34	8320398	20	BC 5	58C
1TR5	8320152 2	0 BC	557B	1TR35	8320443	32	BD 4	42
1TR6-8	8320097 2	0 BC	547B	1IC1-2	8340157			
1TR9	8320422 1	9 PU 0)1			102	TD8 DP	0124
1TR10-11	8320097 2	0 BC	547B	1IC3	8340195			
1TR12	8320152 2	0 BC 5	557B				TL 07	772 TC
1TR13-14	8320097 2	0 BC 5	5478	2TR1	8320097	20	BC 5	47B
1TR15	8320152 2	0 BC 5	5578	2IC1	8340454	124	R 109	93
1TR16	8320097 2	0 BC 5	5478	2IC2	8340156	101	SN 7	4247N
1TR17	8320152 2	0 BC 5	557B	2IC3-6	8340025		MPS	
1TR18	8320097 2	0 BC 5	547B	0.07	00.40004	19	SPS	
1TR19	8320422 1	9 PU 0	11	2IC7	8340261		F 401	
1TR20	8320152 2	0 BC 5	557B					

209	215	21	7	220	15			
<u>^</u> _	<u>^</u>	<u>-</u> _	C	4				
0D1-2	8300102	209	1N	4004	1026	830005		ZPP 15 BZX 79C
0D3	8300128		ZP(0 5.6V 5% K 79				15V0 BZX 83C
		209	C5\					15V0
		200	C5\		1D31-36	830005		SFD 184
OPE1	8330056							1N 4148 1N 4148
OPE2	8005067				1D37-38	830031		ZPD 47 5%
1D1-12	8300058		SFC					BZX 79C 47V BZX 83C 47V
			1N 4		1D39	830010	1 215	BAX 16
1D16-19	8300102	209	1N 4	4004	1D40	830010	2 209	1N 4004
1D20	8300201	209	ZPC	6V2	1D41	8300058		SFD 184 1N 4148
1D21-24	8300102	209	1N 4	1004				1N 4148
1D25	8300313			15V 2% (79B	1D42	830010	2 209	1N 4004
			15V		2DP1	8330008	5	NSB 3882
			15V		5D1-2	833000	220	CQY 85
					-			

10-22 kΩ ±5% 1/4W

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LIST OF ELECTRICAL PARTS

Control Circuits 80050088,
PCB1
R1 5010057 150 Ω :

0R1

5010092 220 kΩ ±5% 1/4μ

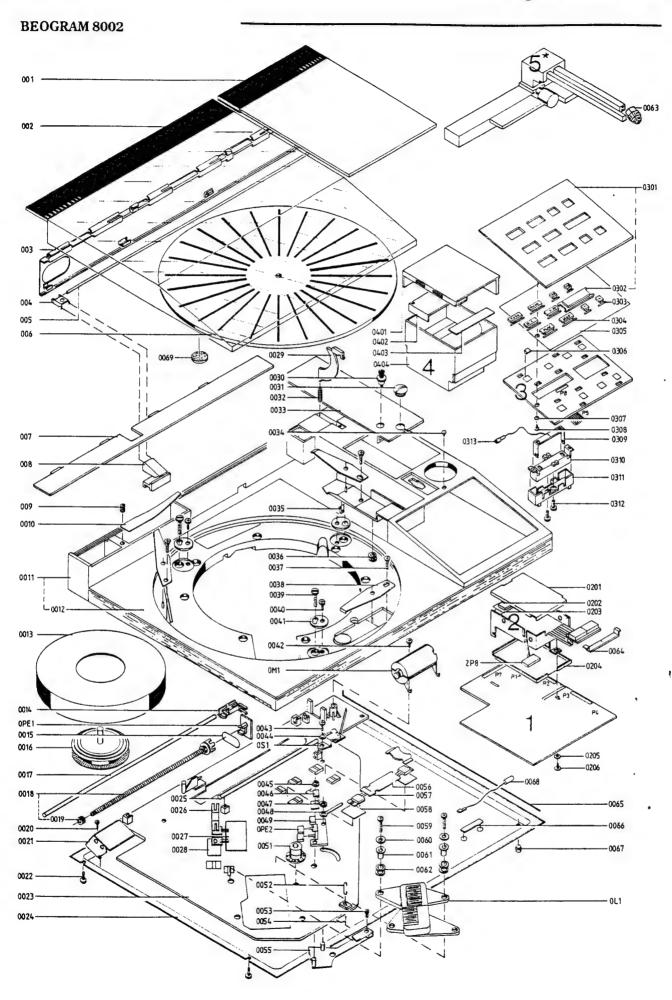
R10	0R1 0R2	5010092 5001026	$220 \text{ k}\Omega \pm 5\% 1/4\mu$ $680 \Omega \pm 10\% 1/2\text{W}$	* 0R3		$10-22 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
S010045 47 kQ ±5% 1/4W R66 S010245 2.2 MQ ±5% 1/4W R67 S010053 15 kQ ±5% 1/4W R68 S010054 1MQ ±5% 1/4W R68 S010054 1MQ ±5% 1/4W R69 S010054 1MQ ±5% 1/4W R70 S010054 MQ ±5% 1/4W R70 S010055 MQ ±5% 1/4W R70 S010055 MQ ±5% 1/4W R70 S010059 MQ ±5% 1/4W R70 S010050 MQ ±5% 1/4W MQ = S010050 MQ ±5				0RL1	7600059	Relay 12V
S S S S S S S S S S	R1	5010057	150 Ω ±5% 1/4W	R65	5010053	
\$100049		5010045	$47 \text{ k}\Omega \pm 5\% 1/4\text{W}$			
R5						
RS						
R7 S010054 1MΩ ±5% 1/4W R71 S010059 10 kΩ ±5% 1/4W R8 S010153 1.2 kΩ ±5% 1/4W R73 S010075 33 kΩ ±5% 1/4W R74 S010041 5.6 kΩ ±5% 1/4W R75 S010064 330 Ω ±5% 1/4W R74 S010064 5.6 kΩ ±5% 1/4W R75 S010069 30 kΩ ±5% 1/4W R76 S010069 30 kΩ ±5% 1/4W R77 S010052 6.8 kΩ ±5% 1/4W R78 S010060 1 kΩ ±5% 1/4W R79 S010050 1.2 kΩ ±10% 1/2W R13 S010065 3 kΩ ±5% 1/4W R79 S0101030 1.2 kΩ ±10% 1/2W R15 S010069 10 kΩ ±5% 1/4W R80 S010060 1.2 kΩ ±10% 1/2W R16 S010069 10 kΩ ±5% 1/4W R81 S010069 3 kΩ ±5% 1/4W R17 S010069 20 kΩ ±5% 1/4W R81 S010069 10 kΩ ±5% 1/4W R81 S010069 500 Ω ±5% 1/4W R81 S010069 S00 Ω ±5% 1/4W R81 S010069 S00 Ω ±5% 1/4W R82 S010040 1 kΩ ±5% 1/4W R83 S010067 S00 Ω ±5% 1/4W R82 S010044 1 kΩ ±5% 1/4W R89 S010054 1 kΩ ±5% 1/4W R89 S010055 S00 Ω ±5% 1/4W R22 S010054 1 kΩ ±5% 1/4W R89 S010056 S00 Ω ±5% 1/4W R22 S010064 1 kΩ ±5% 1/4W R99 S010040 1 kΩ ±5% 1/4W R29 S010060 S00 Ω ±5% 1/4W R20 S010060 S00 Ω ±5% 1/4W R2						
R8						
R9 5010153 1.2 kΩ ±5% 1/4W R73 5010041 5.6 kΩ ±5% 1/4W R11 5010044 330 Ω ±5% 1/4W R75 5010069 3.9 kΩ ±5% 1/4W R12 5010045 47 kΩ ±5% 1/4W R76 5010069 22 kΩ ±5% 1/4W R13 5010045 47 kΩ ±5% 1/4W R77 5010069 22 kΩ ±5% 1/4W R14 5010053 5 kΩ ±5% 1/4W R78 5010050 6.8 kΩ ±5% 1/4W R15 5010048 4.7 kΩ ±5% 1/4W R80 5001004 1kΩ ±5% 1/4W R15 5010049 4.7 kΩ ±5% 1/4W R80 5001004 22 Ω ±10% 1/2W R16 5010040 1kΩ ±5% 1/4W R80 5001004 22 Ω ±10% 1/2W R17 5010092 6.8 kΩ ±5% 1/4W R81 5010055 6.8 kΩ ±5% 1/4W R81 5010056 6.8 kΩ ±5% 1/4W R81 5010060 6.8 kΩ ±5% 1/4W R82 5010064 6.8 kΩ ±5% 1/4W R82 5010066 6.8 kΩ ±5% 1/4W R82 5010066 6.8 kΩ ±5% 1/4W R82 5010065 6.8 kΩ ±5% 1/4W R82 5010067 6.8 kΩ ±5% 1/4W R82 5010060 6.8 kΩ ±5% 1/4W R83 5010060 6.8					5010054	$1 \text{ M}\Omega \pm 5\% 1/4\text{W}$
R11 5010044 33 Ω Ω ± 5% 1/4W R75 50100699 29 kΩ ± 5% 1/4W R12 5010045 47 kΩ ± 5% 1/4W R76 5010079 22 kΩ ± 5% 1/4W R13 5010045 47 kΩ ± 5% 1/4W R77 5010050 6.8 kΩ ± 5% 1/4W R15 5010048 4.7 kΩ ± 5% 1/4W R79 5010040 1 kΩ ± 5% 1/4W R16 5010040 1 kΩ ± 5% 1/4W R80 5010042 22 Ω ± 10% 1/2W R17 5010059 10 kΩ ± 5% 1/4W R81 5010064 1 kΩ ± 5% 1/4W R19 5010117 330 kΩ ± 5% 1/4W R83 5010067 560 Ω ± 5% 1/4W R20 5010045 47 kΩ ± 5% 1/4W R86 5010041 1 kΩ ± 5% 1/4W R21 5010045 47 kΩ ± 5% 1/4W R89 5010050 820 kΩ ± 5% 1/4W R22 5010045 1 MΩ ± 5% 1/4W R89 5010050 820 kΩ ± 5% 1/4W R23 5010051 1 MΩ ± 5% 1/4W R89 5010050 820 kΩ ± 5% 1/4W R24 5010053 1 50 kΩ ± 5% 1/4W		5010153	$1.2 \text{ k}\Omega \pm 5\% \text{ 1/4W}$		5010075	$33 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R12 5010045 47 kΩ ± 5% I/4W R76 5010079 22 kΩ ± 5% I/4W R13 5010045 15 kΩ ± 5% I/4W R77 5010052 6.8 kΩ ± 5% I/4W R15 5010040 1 kΩ ± 5% I/4W R78 5010040 1 kΩ ± 5% I/4W R15 5010052 6.8 kΩ ± 5% I/4W R16 5010040 1 kΩ ± 5% I/4W R18 5010052 6.8 kΩ ± 5% I/4W R18 5010052 6.8 kΩ ± 5% I/4W R18 5010052 6.8 kΩ ± 5% I/4W R18 5010054 1 kΩ ± 5% I/4W R19 5010117 303 kΩ ± 5% I/4W R18 5010064 1 kΩ ± 5% I/4W R19 5010045 47 kΩ ± 5% I/4W R19 5010046 12 kΩ ± 5% I/4W R21 5010045 47 kΩ ± 5% I/4W R19 5010046 12 kΩ ± 5% I/4W R22 5010054 1 kΩ ± 5% I/4W R22 5010054 1 kΩ ± 5% I/4W R23 5010055 820 kΩ ± 5% I/4W R24 5010035 18 kΩ ± 5% I/4W R25 5010065 18 kΩ ± 5% I/4W R26 5010063 15 kΩ ± 5% I/4W R27 5010062 68 kΩ ± 5% I/4W R28 5010063 15 kΩ ± 5% I/4W R29 5010040 1 kΩ ± 5% I/4W R26 5010063 15 kΩ ± 5% I/4W R27 5010062 68 kΩ ± 5% I/4W R28 5010050 220 kΩ ± 5% I/4W R28 5010050 220 kΩ ± 5% I/4W R28 5010050 10 kΩ ± 5% I/4W R29 5010040 1 kΩ ± 5% I/4W R28 5010050 10 kΩ ± 5% I/4W R29 5010050 10 kΩ ± 5% I/4W R20						
R13						
R14 5010053 15 kΩ ±5% 1/4W R78 5010040 1 kΩ ±5% 1/4W R15 5010040 1 kΩ ±5% 1/4W R80 5001030 1.2 kΩ ±10% 1/2W R16 5010040 1 kΩ ±5% 1/4W R80 5001030 1.2 kΩ ±10% 1/2W R17 5010092 220 Ω ±5% 1/4W R81 5010052 6.8 kΩ ±5% 1/4W R18 5010050 10 kΩ ±5% 1/4W R82 5010040 1 kΩ ±5% 1/4W R83 5010067 560 Ω ±5% 1/4W R20 50101017 330 kΩ ±5% 1/4W R85 5010046 12 kΩ ±5% 1/4W R20 5010040 1 kΩ ±5% 1/4W R87 5010046 12 kΩ ±5% 1/4W R22 5010040 1 kΩ ±5% 1/4W R87 5010041 5 kΩ ±5% 1/4W R22 5010040 1 kΩ ±5% 1/4W R88 5010046 12 kΩ ±5% 1/4W R22 5010054 1 kΩ ±5% 1/4W R89 5010057 820 kΩ ±5% 1/4W R23 5010054 1 kΩ ±5% 1/4W R99 5010077 470 kΩ ±5% 1/4W R24 5010135 18 kΩ ±5% 1/4W R99 5010077 470 kΩ ±5% 1/4W R25 5010059 10 kΩ ±5% 1/4W R99 5010040 1 kΩ ±5% 1/4W R28 5010063 155 kΩ ±5% 1/4W R99 5010040 1 kΩ ±5% 1/4W R28 5010060 15 kΩ ±5% 1/4W R99 5010040 1 kΩ ±5% 1/4W R28 5010060 1 kΩ ±5% 1/4W R99 5010020 220 kΩ ±5% 1/4W R28 5010060 1 kΩ ±5% 1/4W R99 5010020 220 kΩ ±5% 1/4W R28 50101020 220 kΩ ±5% 1/4W R29 5010020 10 kΩ ±5% 1/4W R29 5010059 10 kΩ ±5% 1/4W R28 5010059 10 kΩ ±5% 1/4W R29 5010059 10 kΩ ±5% 1/4W R23 5010054 1 kΩ ±5% 1/4W R23 5010059 10 kΩ ±5% 1/4W R23 5010054 1 kΩ ±5% 1/4W R23 5010054 1 kΩ ±5% 1/4W R23 5010054 1 kΩ ±5% 1/4W R23 5010059 10 kΩ ±5% 1/4W						
R15 5010048 4.7 kΩ ±5% 1/4W R80 501030 1.2 kΩ ±10% 1/2W R16 5010040 1 kΩ ±5% 1/4W R81 5010052 20 Ω ±5% 1/4W R81 5010052 6.8 kΩ ±5% 1/4W R82 5010040 1 kΩ ±5% 1/4W R83 5010067 560 Ω ±5% 1/4W R83 5010067 1/2 kΩ ±5% 1/4W R84 5010035 1/2 kΩ ±5% 1/4W R94 5010050 1/2 kΩ ±5% 1/4W R95 5010060 1/2 kΩ ±5% 1/4W R95 5010050 1/2 kΩ						
R16						
R17						
R19				R81	5010052	$6.8 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$
R20 5010120 220 kΩ ±5% I/4W R86 5010046 12 kΩ ±5% I/4W R87 R21 5010045 1 MΩ ±5% I/4W R88 5010431 2.7 MΩ ±5% I/4W R88 5010431 2.7 MΩ ±5% I/4W R89 5010505 820 kΩ ±5% I/4W R23 5010054 1 MΩ ±5% I/4W R89 5010505 820 kΩ ±5% I/4W R24 5010050 10 kΩ ±5% I/4W R89 5010074 470 kΩ ±5% I/4W R25 5010061 1 kΩ ±5% I/4W R89 5010040 1 kΩ ±5% I/4W R26 5010062 68 kΩ ±5% I/4W R89 5010120 220 kΩ ±5% I/4W R27 5010060 1 kΩ ±5% I/4W R84 5010053 15 kΩ ±5% I/4W R28 5010040 1 kΩ ±5% I/4W R89 5010120 220 kΩ ±5% I/4W R29 5010120 220 kΩ ±5% I/4W R29 5010120 220 kΩ ±5% I/4W R20 501025 12 kΩ ±5% I/4W R20 501029 22 kΩ ±5% I/4W R20 501029 22 kΩ ±5% I/4W R20 501029 220 kΩ ±5% I/4W R20 501029 220 kΩ ±5% I/4W R20 501029 <td>R18</td> <td></td> <td></td> <td></td> <td></td> <td></td>	R18					
R21						
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R27						
R28	R26	5010063	$150 \text{ k}\Omega \pm 5\% 1/4\text{W}$		5010040	$1 \text{ k}\Omega \pm 5\% 1/4\text{W}$
R29						
R30						
R31						
R32 5010059 10 kΩ ±5% 1/4W R98 501017 330 kΩ ±5% 1/4W R33 5010117 330 kΩ ±5% 1/4W R99 5010076 3.3 kΩ ±5% 1/4W R34 5010054 1 MΩ ±5% 1/4W R100 5010060 39 kΩ ±5% 1/4W R35 5010054 1 MΩ ±5% 1/4W R101 5010060 39 kΩ ±5% 1/4W R36 5010054 1 MΩ ±5% 1/4W R102 5010054 1 MΩ ±5% 1/4W R37 5010298 2.7 kΩ ±5% 1/4W R103 5010064 2.2 kΩ ±5% 1/4W R38 5010065 6.8 kΩ ±5% 1/4W R105 5010040 1 kΩ ±5% 1/4W R39 5010052 6.8 kΩ ±5% 1/4W R105 5010040 1 kΩ ±5% 1/4W R40 5010053 1.2 kΩ ±5% 1/4W R105 5010040 1 kΩ ±5% 1/4W R41 5010153 1.2 kΩ ±5% 1/4W R106 5010044 330 Ω ±5% 1/4W R42 5010079 22 kΩ ±5% 1/4W R108 5010041 1 kΩ ±5% 1/4W R43 5001004 2 Ω ±10% 1/2W R48 5010054 1 MΩ ±5% 1/4W R110 5010047 1.5 kΩ ±5% 1/4W R49 5010059 6.6 kΩ ±5% 1/4W R110 5010247 1.5 kΩ ±5% 1/4W R49 5010054 1 MΩ ±5% 1/4W R110 5010247 1.5 kΩ ±5% 1/4W R49 5010054 1 MΩ ±5% 1/4W R111 5010075 33 kΩ ±5% 1/4W R49 5010054 1 MΩ ±5% 1/4W R111 5010075 33 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R112 5001021 330 Ω ±10% 1/2W R50 5010153 1.2 kΩ ±5% 1/4W R112 5001024 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010153 1.2 kΩ ±5% 1/4W R115 5010040 1 kΩ ±5% 1/4W R50 5010120 220 kΩ ±5% 1/4W R115 5010040 100 kΩ ±5% 1/4W R50 5010079 22 kΩ ±5% 1/4W R115 5010040 100 kΩ ±5% 1/4W R50 5010079 22 kΩ ±5% 1/4W R115 5010040 100 kΩ ±5% 1/4W R50 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R50 5010079 22 kΩ ±5% 1/4W R119 5010054 1 kΩ ±5% 1/4W R50 5010079 22 kΩ ±5% 1/4W R119 5010060 22 kΩ ±5% 1/4W R50 5010060 22 kΩ ±5% 1/4W R120 5010064 12 kΩ ±5% 1/4W R50 5010009 20 kΩ ±5% 1/4W R120 5010064 12 kΩ ±5% 1/4W R50 5010009 20 kΩ ±5% 1/4W R50 5010009						
R33						
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R36		5010054		R100	5010049	$100 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
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R43 5001004 $22 \Omega \pm 10\% 1/2W$ R109 5010041 5.6 kΩ $\pm 5\% 1/4W$ R48 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R110 5010247 1.5 kΩ $\pm 5\% 1/4W$ R50 5010153 1.2 kΩ $\pm 5\% 1/4W$ R111 5010075 $33 \text{ k}\Omega \pm 5\% 1/4W$ R50 5010153 1.2 kΩ $\pm 5\% 1/4W$ R112 5001021 $330 \Omega \pm 10\% 1/2W$ R51 5010067 $560 \Omega \pm 5\% 1/4W$ R113 5010040 1 kΩ $\pm 5\% 1/4W$ R52 5010120 $220 \text{ k}\Omega \pm 5\% 1/4W$ R114 5010822 18 $\Omega \pm 5\% 1/4W$ R53 5010059 10 kΩ $\pm 5\% 1/4W$ R115 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R54 5010075 $33 \text{ k}\Omega \pm 5\% 1/4W$ R15 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R55 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R16 5001001 $10 \Omega \pm 10\% 1/2W$ R55 5010044 $680 \text{ k}\Omega \pm 5\% 1/4W$ R117 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R55 5010141 $27 \text{ k}\Omega \pm 5\% 1/4W$ R118 5010061 $56 \text{ k}\Omega \pm 5\% 1/4W$ R57 5010079 $22 \text{ k}\Omega \pm 5\% 1/4W$ R119 5010057 $150 \Omega \pm 5\% 1/4W$ R58 5010120 $220 \text{ k}\Omega \pm 5\% 1/4W$ R120 5010046 $12 \text{ k}\Omega \pm 5\% 1/4W$ R65 5010047 $120 \text{ k}\Omega \pm 5\% 1/4W$ R120 5010046 $12 \text{ k}\Omega \pm 5\% 1/4W$ R66 5010000 $270 \Omega \pm 5\% 1/4W$ R121 5001024 $470 \Omega \pm 10\% 1/2W$ R60 5010000 $270 \Omega \pm 5\% 1/4W$ R122 5010041 $5.6 \text{ k}\Omega \pm 5\% 1/4W$ R61 5010059 $10 \text{ k}\Omega \pm 5\% 1/4W$ R123 5010069 $3.9 \text{ k}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 5\% 1/4W$ R123 5010064 $1 \text{ k}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 5\% 1/4W$ R124 5010054 $1 \text{ k}\Omega \pm 5\% 1/4W$ R65 $4010060 22 \text{ n}F \cdot 20 + 80\% 40V$ C15 4201035 $2.2 \text{ μ}F 63V$ C16 4010063 $4.7 \text{ n}F \pm 10\% 63V$ C17 4010060 $22 \text{ n}F \cdot 20 + 80\% 40V$ C17 4010060 $22 \text{ n}F \cdot 20 + 80\% 40V$ C17 4010060 $22 \text{ n}F \cdot 20 + 80\% 40V$ C18 4000071 $270 \text{ p}F \pm 5\% 63V$ N750 C8 4010041 $10 \text{ n}F \cdot 20 + 80\% 40V$ C19 4200333 $1 \text{ μ}F 63V$ C9 4130155 $1 \text{ μ}F \pm 10\% 100V$ C20 4200483 $47 \text{ μ}F 16V$	R42	5010079		R108	5010135	4
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R50 5010153 1.2 kΩ ±5% 1/4W R112 5001021 330 Ω ±10% 1/2W R51 5010067 560 Ω ±5% 1/4W R113 5010040 1 kΩ ±5% 1/4W R52 5010120 220 kΩ ±5% 1/4W R114 5010822 18 Ω ±5% 1/4W R53 5010059 10 kΩ ±5% 1/4W R115 5010049 100 kΩ ±5% 1/4W R54 5010075 33 kΩ ±5% 1/4W R116 5001001 10 Ω ±10% 1/2W R55 5010074 680 kΩ ±5% 1/4W R117 5010049 100 kΩ ±5% 1/4W R56 5010141 27 kΩ ±5% 1/4W R118 5010061 56 kΩ ±5% 1/4W R57 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R60 5010000 270 Ω ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 kΩ ±5% 1/4W R61 5010059 10 kΩ ±5% 1/4W R123 5010069 3.9 kΩ ±5% 1/4W R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 μF 50V C13 4200426 1 μF 50V C13 4200426 1 μF 50V C14 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C16 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+80% 40V C18 4000071 270 pF ±5% 63V N750 C18 4010041 10 nF -20+80% 40V C19 4200333 1 μF 63V C19 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
R51 5010067 560 Ω = 5% 1/4W R113 5010040 1 kΩ ±5% 1/4W R52 5010120 220 kΩ ±5% 1/4W R114 5010822 18 Ω ±5% 1/4W R53 5010059 10 kΩ ±5% 1/4W R115 5010049 100 kΩ ±5% 1/4W R54 5010075 33 kΩ ±5% 1/4W R116 5001001 10 Ω ±10% 1/2W R55 5010074 680 kΩ ±5% 1/4W R117 5010049 100 kΩ ±5% 1/4W R56 5010141 27 kΩ ±5% 1/4W R118 5010061 56 kΩ ±5% 1/4W R57 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R60 5010000 270 Ω ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 kΩ ±5% 1/4W R61 5010059 10 kΩ ±5% 1/4W R123 5010069 3.9 kΩ ±5% 1/4W R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 μF 50V C2 4010060 22 nF -20+80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C16 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+80% 40V C16 4130193 22 nF ±20% 63V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20+80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
R52						
R53 5010059 10 kΩ ±5% 1/4W R115 5010049 100 kΩ ±5% 1/4W R54 5010075 33 kΩ ±5% 1/4W R116 5001001 10 Ω ±10% 1/2W R55 5010074 680 kΩ ±5% 1/4W R117 5010049 100 kΩ ±5% 1/4W R56 5010141 27 kΩ ±5% 1/4W R118 5010061 56 kΩ ±5% 1/4W R57 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 kΩ ±5% 1/4W R61 5010059 10 kΩ ±5% 1/4W R123 5010069 3.9 kΩ ±5% 1/4W R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 μF 50V C13 4200426 1 μF 50V						
R54 5010075 33 kΩ ±5% 1/4W R116 5001001 $10 \Omega \pm 10\% 1/2W$ R55 5010074 $680 \text{ k}\Omega \pm 5\% 1/4W$ R117 5010049 $100 \text{ k}\Omega \pm 5\% 1/4W$ R56 5010141 $27 \text{ k}\Omega \pm 5\% 1/4W$ R118 5010061 $56 \text{ k}\Omega \pm 5\% 1/4W$ R57 5010079 $22 \text{ k}\Omega \pm 5\% 1/4W$ R119 5010057 $150 \Omega \pm 5\% 1/4W$ R58 5010120 $220 \text{ k}\Omega \pm 5\% 1/4W$ R120 5010046 $12 \text{ k}\Omega \pm 5\% 1/4W$ R59 5010047 $120 \text{ k}\Omega \pm 5\% 1/4W$ R121 5001024 $470 \Omega \pm 10\% 1/2W$ R60 5010000 $270 \Omega \pm 5\% 1/4W$ R122 5010041 $5.6 \text{ k}\Omega \pm 5\% 1/4W$ R61 5010059 $10 \text{ k}\Omega \pm 5\% 1/4W$ R123 5010069 $3.9 \text{ k}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 20\% \text{ Lin.}$ R124 5010054 $1 \text{ m}\Omega \pm 5\% 1/4W$ R65 $4010060 22 \text{ m}F - 20 + 80\% 40V$ C13 $4200426 1 \text{ m}F 50V$ C2 $4010060 22 \text{ m}F - 20 + 80\% 40V$ C15 $4201035 2.2 \text{ m}F 63V$ C4 $4200285 0.47 \text{ m}F 63V$ C16 $4010063 4.7 \text{ m}F \pm 10\% 63V$ C5 $4010060 22 \text{ m}F - 20 + 80\% 40V$ C17 $4010060 22 \text{ m}F - 20 + 80\% 40V$ C17 $4010060 22 \text{ m}F - 20 + 80\% 40V$ C18 $4000071 270 \text{ p}F \pm 5\% 63V N750$ C8 $4010041 10 \text{ m}F - 20 + 80\% 40V$ C19 $4200333 1 \text{ m}F 63V$ C9 $4130155 1 \text{ m}F \pm 10\% 100V$ C20 $4200483 47 \text{ m}F 16V$						
R56 5010141 27 kΩ ±5% 1/4W R118 5010061 56 kΩ ±5% 1/4W R57 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 kΩ ±5% 1/4W R61 5010059 10 kΩ ±5% 1/4W R123 5010069 3.9 kΩ ±5% 1/4W R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 μF 50V C2 4010060 22 nF -20 +80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C5 4010060 22 nF -20 +80% 40V C17 4010060 22 nF -20 +80% 40V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20 +80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V				R116	5001001	$10~\Omega \pm 10\%~1/2W$
R57 5010079 22 kΩ ±5% 1/4W R119 5010057 150 Ω ±5% 1/4W R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 $5.6 \text{ k}\Omega \pm 5\% 1/4W$ R61 5010059 $10 \text{ k}\Omega \pm 5\% 1/4W$ R123 5010069 $3.9 \text{ k}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 20\% \text{ Lin.}$ R124 5010054 $1 \text{ M}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 20\% \text{ Lin.}$ R124 5010054 $1 \text{ M}\Omega \pm 5\% 1/4W$ R126 4010060 $22 \text{ nF} - 20 + 80\% 40V$ C13 4200426 $1 \text{ μF} 50V$ C2 4010060 $22 \text{ nF} \pm 10\% 100V$ C15 4201035 $2.2 \text{ μF} 63V$ C4 4200285 $0.47 \text{ μF} 63V$ C16 4010063 $4.7 \text{ nF} \pm 10\% 63V$ C5 4010060 $22 \text{ nF} - 20 + 80\% 40V$ C17 4010060 $22 \text{ nF} - 20 + 80\% 40V$ C17 4010060 $22 \text{ nF} - 20 + 80\% 40V$ C18 4000071 $270 \text{ pF} \pm 5\% 63V \text{ N750}$ C8 4010041 $10 \text{ nF} - 20 + 80\% 40V$ C19 4200333 $1 \text{ μF} 63V$ C9 4130155 $1 \text{ μF} \pm 10\% 100V$ C20 4200483 $47 \text{ μF} 16V$	R55	5010074	$680 \text{ k}\Omega \pm 5\% \text{ 1/4W}$	R117		
R58 5010120 220 kΩ ±5% 1/4W R120 5010046 12 kΩ ±5% 1/4W R59 5010047 120 kΩ ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 $5.6 \text{ k}\Omega \pm 5\% 1/4W$ R61 5010059 $10 \text{ k}\Omega \pm 5\% 1/4W$ R123 5010069 $3.9 \text{ k}\Omega \pm 5\% 1/4W$ R64 5370068 $22 \text{ k}\Omega \pm 20\% \text{ Lin.}$ R124 5010054 $1 \text{ M}\Omega \pm 5\% 1/4W$ R64 5010060 $22 \text{ n}F - 20 + 80\% 40V$ C13 4200426 $1 \text{ n}F 50V$ C2 4010060 $22 \text{ n}F - 20 + 80\% 40V$ C15 4201035 $2.2 \text{ n}F \pm 10\% 63V$ C16 4010063 $4.7 \text{ n}F \pm 10\% 63V$ C16 4010060 $4.7 \text{ n}F \pm 10\% 63V$ C17 4010060 $4.7 \text{ n}F \pm 10\% 63V$ C18 400071 $4.7 \text{ n}F \pm 10\% 63V$ C18 4010041 $4.7 \text{ n}F \pm 20 + 80\% 40V$ C19 4200333 $4.7 \text{ n}F \pm 5\% 63V$ C18 4010041 $4.7 \text{ n}F \pm 20 + 80\% 40V$ C19 4200333 $4.7 \text{ n}F \pm 63V$ C19 4130155 $4.7 \text{ n}F \pm 10\% 100V$ C20 4200483 $4.7 \text{ n}F \pm 63V$ C19 4130155 $4.7 \text{ n}F \pm 10\% 100V$ C20 4200483 $4.7 \text{ n}F \pm 63V$ C19 4130155 $4.7 \text{ n}F \pm 10\% 100V$ C20 4200483 $4.7 \text{ n}F \pm 63V$						
R59 5010047 120 kΩ ±5% 1/4W R121 5001024 470 Ω ±10% 1/2W R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 kΩ ±5% 1/4W R61 5010059 10 kΩ ±5% 1/4W R123 5010069 $3.9 \text{ k}Ω \pm 5\% 1/4W$ R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 MΩ ±5% 1/4W C2 4010060 22 nF -20 +80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C5 4010060 22 nF -20 +80% 40V C17 4010060 22 nF -20 +80% 40V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20 +80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
R60 5010000 270 Ω ±5% 1/4W R122 5010041 5.6 k Ω ±5% 1/4W R61 5010059 10 k Ω ±5% 1/4W R123 5010069 3.9 k Ω ±5% 1/4W R64 5370068 22 k Ω ±20% Lin. R124 5010054 1 M Ω ±5% 1/4W C1 4200100 22 μF 40V C1 4200426 1 μF 50V C2 4010060 22 nF -20 +80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C5 4010060 22 nF -20 +80% 40V C17 4010060 22 nF -20 +80% 40V C17 4010060 22 nF -20 +30% 40V C6 4130193 22 nF ±20% 63V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20 +80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
R61 5010059 10 kΩ ±5% 1/4W R123 5010069 3.9 kΩ ±5% 1/4W R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 MΩ ±5% 1/4W C1 4200100 22 μF 40V C12 4200426 1 μF 50V C2 4010060 22 nF -20+80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C5 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+30% 40V C6 4130193 22 nF =20% 63V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20+80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
R64 5370068 22 kΩ ±20% Lin. R124 5010054 1 MΩ ±5% 1/4W C1 4200100 22 μF 40V C12 4200426 1 μF 50V C2 4010060 22 nF -20+80% 40V C13 4200426 1 μF 50V C3 4010027 1 nF ±10% 100V C15 4201035 2.2 μF 63V C4 4200285 0.47 μF 63V C16 4010063 4.7 nF ±10% 63V C5 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+30% 40V C6 4130193 22 nF ±20% 63V C18 4000071 270 pF ±5% 63V N750 C8 4010041 10 nF -20+80% 40V C19 4200333 1 μF 63V C9 4130155 1 μF ±10% 100V C20 4200483 47 μF 16V						
C2 4010060 $22 \text{ nF} - 20 + 80\% 40\text{V}$ C13 4200426 $1 \text{ µF} 50\text{V}$ C3 4010027 $1 \text{ nF} \pm 10\% 100\text{V}$ C15 4201035 $2.2 \text{ µF} 63\text{V}$ C4 4200285 $0.47 \text{ µF} 63\text{V}$ C16 4010063 $4.7 \text{ nF} \pm 10\% 63\text{V}$ C5 4010060 $22 \text{ nF} - 20 + 80\% 40\text{V}$ C17 4010060 $22 \text{ nF} - 20 + 80\% 40\text{V}$ C18 4000071 $270 \text{ pF} \pm 5\% 63\text{V}$ N750 C8 4010041 $10 \text{ nF} - 20 + 80\% 40\text{V}$ C19 4200333 $1 \text{ µF} 63\text{V}$ C9 4130155 $1 \text{ µF} \pm 10\% 100\text{V}$ C20 4200483 $47 \text{ µF} 16\text{V}$						
C3 4010027 1 nF $\pm 10\%$ 100V C15 4201035 2.2 μ F 63V C4 4200285 0.47 μ F 63V C16 4010063 4.7 nF $\pm 10\%$ 63V C5 4010060 22 nF -20+80% 40V C17 4010060 22 nF -20+80% 40V C18 4010060 22 nF -20+80% 40V C18 4000071 270 pF $\pm 5\%$ 63V N750 C8 4010041 10 nF -20+80% 40V C19 4200333 1 μ F 63V C9 4130155 1 μ F $\pm 10\%$ 100V C20 4200483 47 μ F 16V	C1	4200100	22 μF 40V	C12	4200426	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$			22 nF -20+80% 40V	C13	4200426	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$						· ·
C6 4130193 $22 \text{ nF} \pm 20\% 63\text{V}$ C18 4000071 $270 \text{ pF} \pm 5\% 63\text{V} \text{ N750}$ C8 4010041 $10 \text{ nF} - 20 + 80\% 40\text{V}$ C19 4200333 $1 \text{ µF} 63\text{V}$ C9 4130155 $1 \text{ µF} \pm 10\% 100\text{V}$ C20 4200483 $47 \text{ µF} 16\text{V}$						
C8 $4010041 - 10 \text{ nF} - 20 + 80\% 40V$ C19 $4200333 - 1 \text{ µF} 63V$ C9 $4130155 - 1 \text{ µF} \pm 10\% 100V$ C20 $4200483 - 47 \text{ µF} 16V$						
C9 4130155 $1 \mu F \pm 10\% 100V$ C20 4200483 47 $\mu F 16V$						•
						•
		4010041	10 nF -20 +80% 40V	C21	4130215	

* 0R3

Microcomputer 8005086, PCB2

C23	4130215	220 nF ±20% 63V	C36	4130155	1 μF ±10% 100V
C24	4200392	2200 μF 16V	C37	4130210	
C25	4130215	220 nF ±20% 63V	C38	4130171	$330 \mu F \pm 20\% 63V$
C26	4130215		C39	4130179	100 nF ±20% 63V
C27	4200393	•	C40	4200342	
C28	4200322	•	C41	4010021	-
C29	4200275		C42	4011025	
C30	4010060		C43	4200423	2.2 µF 50V
C31 C32	4130179		C44	4201078	•
C35	4200423 4130100	•	C45	4201078	22 μF 63V
	4130100	08 III ± 10% 230V			
F1	6604004	Fuse 800 mA-F/250V	IEC 127		
	7500002	Holder f/fuse			
	7500013	Contact pin			
P1	7220176	Dlum O min	Dr	7010004	Carlan CIE
P2	7220176 7220199	Plug 2 pins Plug 12 pins	P5 P6	7210234	Socket 6/5 pins
P3	7220199	Plug 10 pins	P6 P7	7210287 7220187	Socket 20 pins Plug 12 pins
P4	7220168	Plug 8 pins	17	1220101	riug 12 puis
	·				
R1	5010827	$3.3 \text{ k}\Omega \pm 5\% \text{ 1/4W}$	R22	5010039	68 Ω ±5% 1/4W
R2	5010827	$3.3 \text{ k}\Omega \pm 5\% \text{ 1/4W}$	R23	5010039	68 Ω ±5% 1/4W
R3	5010827	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R24	5010039	$68 \Omega \pm 5\% 1/4W$
R4	5010827	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R25	5010039	68 Ω ±5% 1/4W
R5	5010827	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R26	5010039	$68 \Omega \pm 5\% 1/4W$
R6	5010827	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R27	5010064	$2.2 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R7	5010827	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R28	5010064	$2.2 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R8	5010827	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R29	5010064	$2.2 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R9	5010827	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R30	5010064	$2.2 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R10	5010827	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R31	5010048	$4.7 \text{ k}\Omega \pm 5\% 1/4\text{W}$
R11	5010827	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R32	5010298	$2.7 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R12 R13	5010827	$3.3 \text{ k}\Omega \pm 5\% \text{ 1/4W}$	R33	5010039	68 Ω ±5% 1/4W
R14	5010827 5010833	3.3 k Ω ±5% 1/4W 22 k Ω ±5% 1/4W	R34 R35	5010247	$1.5 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
R20	5010033	$68 \Omega \pm 5\% 1/4W$	R36	5010247 5010247	1.5 k Ω ±5% 1/4W 1.5 k Ω ±5% 1/4W
R21	5010039	$68 \Omega \pm 5\% 1/4W$	R37	5010247	$1.5 \text{ k}\Omega \pm 5\% \text{ 1/4W}$
C1	4010063	$4.7 \text{ nF} \pm 10\% 63 \text{V}$	C22	4010063	$4.7 \text{ nF} \pm 10\% 63\text{V}$
C2	4030015	47 nF -20+80% 16V	C23	4010063	$4.7 \mathrm{nF} \pm 10\% 63\mathrm{V}$
C3 C4	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C24	4010063	$4.7 \text{nF} \pm 10\% 63\text{V}$
C5	4010063	4.7 nF ±10% 63V 4.7 nF ±10% 63V	C25	4010041	10 nF -20+80% 40V
C6	4010063 4010063	$4.7 \text{ nF} \pm 10\% 63 \text{ V}$ $4.7 \text{ nF} \pm 10\% 63 \text{ V}$	C26 C27	4010063	$4.7 \text{ nF} \pm 10\% 63V$
C7	4010063	4.7 nF ±10% 63V	C27	4010063 4200364	4.7 nF ±10% 63V 47 μF 10V
C8	4010063	$4.7 \text{ nF} \pm 10\% 63V$	C29	4010063	$4.7 \text{ nF} \pm 10\% 63\text{V}$
C9	4010063	$4.7 \text{nF} \pm 10\% 63\text{V}$	C40	4010063	$4.7 \text{ nF} \pm 10\% 63\text{V}$
C10	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C41	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C11	4010063	4.7 nF ±10% 63V	C42	4010063	4.7 nF ±10% 63V
C12	4010063	4.7 nF ±10% 63V	C43	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C13	4010063	$4.7 \text{ nF} \pm 10\% 63 \text{V}$	C44	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C14	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C45	4010063	$4.7 \text{ nF} \pm 10\% 63V$
C15	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C46	4010063	$4.7 \mathrm{nF} \pm 10\% 63 \mathrm{V}$
C16	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C47	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C17	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$	C48	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C18	4010063	$4.7 \text{nF} \pm 10\% 63\text{V}$	C49	4010063	$4.7 \text{nF} \pm 10\% 63 \text{V}$
C19	4010063	$4.7 \text{nF} \pm 10\% 63\text{V}$	C50	4010063	$4.7 \text{nF} \pm 10\% 63V$
C20 C21	4010063 4010063	4.7 nF ±10% 63V 4.7 nF ±10% 63V	C51	4010063	$4.7 \text{ nF} \pm 10\% 63\text{V}$
		12 210/0007			
P8	6273911	Wires w/socket	L1	8020342	10 mH
	6200015	Flat cable – 7			
	6200029	Flat cable – 10	X1	8090021	2 MHz
	7200057	Socket for IC1			
	8005065	PCB w/IC7			

Operating Panel 3168096, PCB3	R1	5010076	$3.3 \text{ k}\Omega \pm 5\% \text{ 1/4W}$	R6	5010076	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$
	R2	5010076	$3.3 \text{ k}\Omega \pm 5\% 1/4\text{W}$	R7	5010076	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$
	R3	5010076	$3.3 \mathrm{k}\Omega \pm 5\% \mathrm{1/4W}$	R8	5010076	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$
	R4	5010076	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R9	5210009	Photo resistor
	R5	5010076	$3.3 \mathrm{k}\Omega \pm 5\% 1/4\mathrm{W}$	R10	5210009	Photo resistor
	IL1	8230068	18V/30 mA			1
	P5	6200030	Flat cable 6/5		·	
	P8	7220144	Plug 9/8 pins			
Mains Transformer, Module 4						
	C1	4200391	39 μF 55V type 5631	F1	6600040	300 mA slow type 5631
	C1	4200448	27 μF 55V type 5632	F1	6600040	300 mA slow type 5632
	C1	4200448	27 μF 55V type 5633	F1	6600040	300 mA slow type 5633
	C1	4200391	39 µF 55V type 5634	F1	6600028	315 mA slow type 5634
	C1	4200391	39 μF 55V type 5635	F1	6600039	160 mA slow type 5635
	C1	4200391	39 μF 55V type 5636	F1	6600039	160 mA slow type 5636
	CI	4200391	$39 \mu F 55 V$ type 5637	F1	6600039	160 mA slow type 5637
Sliding Chassis Module 5						
	P7	7210203	Socket 12 pins			
	IL1	8230069	5V 60 mA	R1	5210009	Photo resistor
	IL2	8230068	18V 30 mA	PH1	8760002	Photo resistor
	L1	6810008	Coil	. 4-10		
Beogram 8000 and 6006						
	ORL1	7600059	Relay (Omron)			
	IIC1	8340157	LM 324N			
	1D37	8300314	ZPD 47			
	1D38	8300314	ZPD 47			



List of Mechanical Parts

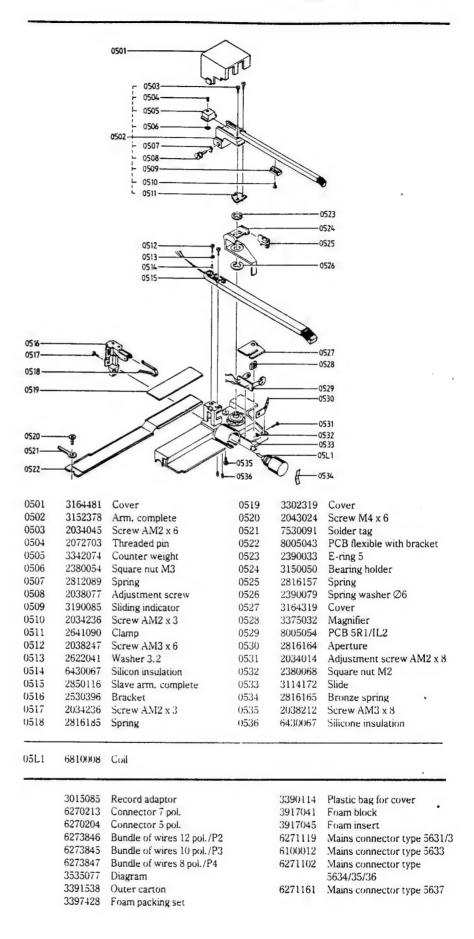
	8013243 8013205 8013244 8013245	Type 5635. 220V - 50 Hz Type 5636. 240V - 50 Hz Type 5637. 240V - 50 Hz			
		Type 5635. 220V - 50 Hz			
	0012542	1 7 00 0004. 12 7 - 30 112.			
		Type 5634. 127V – 50 Hz	0403	3131159	Housing
	8013241 8013242	Type 5632, 100V – 60 Hz Type 5633, 120V – 60 Hz	0402 0403	7200052 2645034	Holder for fuse Insulation piece
04Modul	8013240	Type 5631, 100V - 50 Hz	0401	3164321	Cover
		3 3 3 4 4 4 5 5 5 6 6 6 6 6 6 6 6 6 6			
0307	2622005	. •			
0306	7500148	Contact spring	03P5	6200030	Flat cable 6 pol.
0305	3947075	Polyester tape	0312	6273952	Chassis connection
0304	2775705		0311	2044017	Screw M5 x 10 •
0302	2775706	Set of knobs, small	0310 0311	3131157 3164324	Housing Cover
0301 0302	3168168 3370123	Panel Window	0309	2816158	Bronze spring Housing
	3168096	Operating panel	0308	2011305	Screw 2.2 x 3.2
201:		_			0 0 0 0 0 0
0204	3162136	Cover			
0203	3358168	Heat sink	02P8	6273911	Wire bundle
0202	3947092	Tape		3947093	Tape .
0201	3162136	Cover	• •	2938001	Bushing
J=.,10uu	8005065	PCB Flip-flop	0206	2013095	Screw 2 9 x 9 5
02Modul	8005086	PCB2 Microprocessor	0205	2622052	Fibre washer
O LIMOQUI	8005088 3152214	PCB1 Control Cable binder			
0134-1-1	2005035	PCD1 C			
00PE1	8330056	PCB servo motor – light coupler			
00M1	8400100	Servo motor	00FE2	7400242	Micro switch
00L1	3351012	Stator for drive motor	00PE2	8005067	PCB Tacho – light coupl
0032	2810096	Spring	3000	5555510	
0030	2775659		0069	3333013	Rubber washer
0029	3627013		0067	6273957	Chassis connection
0028	3011012	Mica sheet Friction arm	0067	3103067	Rubber foot
0027 0028		PCB 0TR2/3	0065 0066	2830084 3152101	Shaft Holder
0026		Bronze spring	0064	3151173	Bronze spring
0025	2830093		* 0063	8954830	MMC2 (replacement)
0024	3454236		0062	2938149	Rubber bushing
0023	3114156	•	0061	2390079	Bushing
0022	2039027		0060	2622024	Washer 4.3
	3302348		0059	2043013	Screw M4 x 16
0021	8005044		0058	3170169	Mica sheet
0020	2039027	•	0057	6140697	PCB 0IC1/TR1
0019	2389057	Threaded bushing	0056	2816163	Bronze spring
0018	2830099 2993034		0054	2852041	Arm
0017	2830092		0053 0054	2013906 2894045	Screw 2.9 x 6.5 Spring
0016	2726123	Hub	0052	2514028	Hook
0015	2732045		0051	2938186	Bearing
0014	3152293	Holder	0049	3151178	Holder
0013	2871009	Rotor	0048	7530091	Solder tag
0012	3458274	Aluminium top plate	0047	2390081	Locking ring 4
	3413915		0046	3151177	Holder
	3413914		0045	2390081	Locking ring 4
0011	3413911		0043	2624038	Washer 4.2
0010	3413911	Cabinet, teak	0042	2043013	Screw M4 x 6
009 0010	2072102 2816168	Threaded pin M4 x 12 Leaf spring	0041 0042	2641097 2015903	Clamp Screw 3.5 x 9.5
800	3030048		0040	2013207	Screw 2.9 x 9.5
007	3162131		0039	2042216	Screw AM4 x 16
006	2726148		0038	2816184	Leaf spring
005	2831043	Shaft	0037	2013028	Screw 2.9 x 16
004	2542527	Hinge	0036	2938095	Rubber bushing
004		Ducit part	0000		
002	3164497 3030067		0034 0035	3010007 2640040	Stop Locking plate

^{* 05}Modul 8055026 Sliding chassis

4-3

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Sliding Chassis 8055026



Parts Not Shown

Beogram 8000 and 6006, Type 561x and 2x

002	3164426	Dustcover 561x	006	2726118	Turntable
	3164132	Dust cover 562x	0030	3627007	Brush
	3030039	Back part	0063	8954670	MMC 20CL (replacement)
	8005040	PCB1, Control	03Modul	3168203	Operating panel 562x
	8005058	PCB2, Microprocessor	0303	2775900	Set of knobs, black
05Modul 0539	8055024	Sliding chassis complete To be deleted in service manual	0540	2390079	Spring washer Ø6

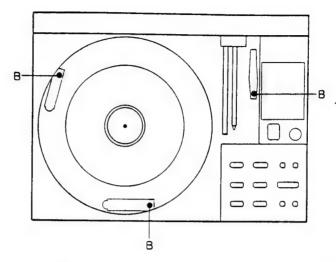
5-1

ADJUSTMENTS

Drive Unit Height

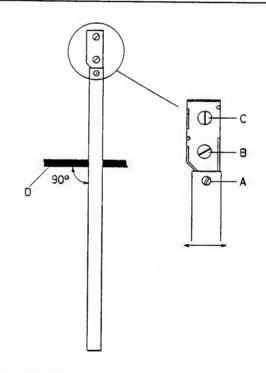
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For some adjustments it is necessary to be able to operate the record player functions with a stationary turntable. The stationary state is obtained by **disconnecting the mains voltage**, removing P4 and reconnecting the mains voltage.



Adjust the screws B – while putting the turntable on and taking it off again – until the top edge of the turntable is 2 mm higher than the cover plate.

Tightening of the Detector Arm

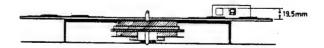


Loosen the screws B and C.

Tighten the screw B very gently.

Turn the detector arm until it is at right angles to the rod D.

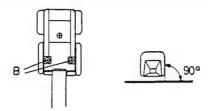
Tighten the screws B and C.



After tightening, check that the height between the upperside of the detetor arm down to the turntable is 19.5 mm.

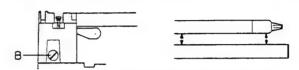
Adjustment is done with the screw A.

Pick-up Parallelism



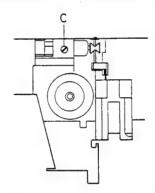
Adjust the screws B – by loosening and tightening respectively – until the side of the pick-up is at right angles to the turntable.

Vertical Parallelism of the Pick-up Arm



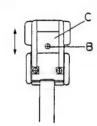
Adjust the screw B gently until the pick-up arm vertically parallels the detector arm.

Horizontal Parallelism of the Pick-up Arm



Adjust the screw C (to be found under the bottom of the carrier unit) until the pick-up arm horizontally parallels the detector arm.

Pick-up Arm Balancing



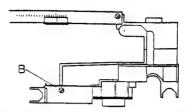
Set stylus pressure at 0.

Loosen screw B.

With the pick-up arm lowered, move the counterbalancing weight C in either of the arrow directions until the pick-up is balanced.

Tighten the screw B and set the stylus pressure at 1 g with MMC2.

Aperture for Photo Control



Adjust the aperture with testing record 3621001 in cutting 5.

Take the pick-up arm across to cutting 5 (stationary turntable) and lower it.

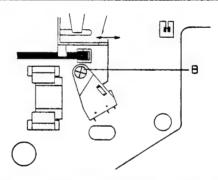
Make sure that the aperture housing is not exposed to any stray light such as a bench lamp.

Make the adjustment with the screw B in such a way that the first servo mechanism regulation after set-down will take place after 2 ± 1 rotations of the turntable and then after each rotation.

To test the aperture regulation only, check that it regulates within 1/2 to 6 revolutions.

It is **possible** to adjust without disassembly, by only removing the black cover which houses the pick-up brush. This adjustment is to be made as above, the only difference being that the turntable must be braked to stop with the hand.

SO Switch

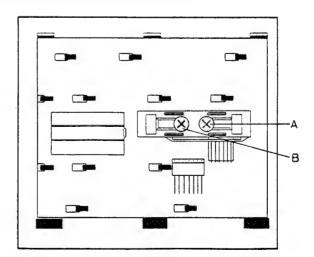


Activate Play with a stationary turntable and with a record with correct 30 cm set-down (146.3 mm to 148.25 mm from the record centre).

Notice the 30 cm set-down position of the pick-up.

Loosen the screw B and move the SO switch in either of the arrow directions so as to compensate for any misplaced set-down.

Manual ≪ and >≫

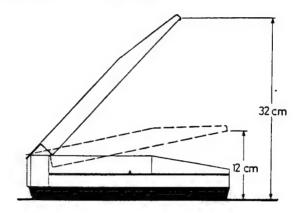


Adjust the screw A and B after approx. 5 minutes operation until 620 mV is measured on pin 4 of P5 and on pin 6 of P5.

Dust Cover Lid Spring

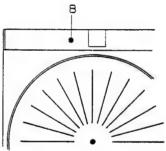
1. Lifting adjustment:

Lift the dust cover lid gently and release it when the lower front edge of the lid has been raised approx. 32 cm above the record player base. The lid will then automatically seek its top position.



2. Lowering adjustment:

Lower the dust cover lid gently and release it when the lower front end of the lid is approx. 12 cm from the base. The lid will then automatically seek its closed position.



Adjust the dust cover lid with the screw B.

Lubrication Chart

The need for relubrication is negligible.

In the case of overhauls and when replacing mechanical parts the directions below should be followed.

Point of lubrication	Lubricant	Remarks '
Turntable bearing	3984008, M4 oil	Apply to shaft point + streak throughout length of shaft
Spindle pos. No. 0018	3984216, Rocol MTS 1000. Dilute to oily consistency (1:1) with 3984221, ESSO NUTO H44/HP32	Apply to spindle at least in 5 points
Spindle bearing	3984030, Barrierta L55/2	
Lift-lower	Castrol oilit 3984211	Apply to needle on pos. No. 0516
Damping of alu. lid 3984005	Kilopoise 3984005	Apply in one streak at each side

TECH	VIC	ΑI	SPE	CIF	ICA	TI	ONS
	110						

Power Supply and Frequency

	_
Wow and flutter DIN	<±0.04%
Wow and flutter WRMS	<±0.02%
Rumble DIN weighted	>75 dB
Rumble DIN unweighted	>50 dB
Speeds	33-45 rpm
Speed diviation	<0.003%
Speed control range	±3%
Tangential tracking	<0.04°
Power consumption	15W
Dimensions W x H x D	49 x 9 x 37.5 cm
Weight	9 kg
Type 5631	100V 50 Hz
Type 5632	100V 50 Hz
Type 5633	120V 60 Hz
Type 5634	127V 50 Hz
Type 5635	220V 50 Hz
Туре 5636	240V 50 Hz
type 5637 (AUS)	240V 50 Hz
Recommended tracking force	10 mN/1 g
Frequency range	20-20,000 Hz ± 1.5 dB
Channel separation 1000 Hz	>25 dB
Channel separation 50-15,000 Hz	>20 dB

 $< 1.5 \, dB$

0.3 mg

30 µm/mN

 $> 0.6 \, \text{mV}$

 $> 2.12 \, mV$

1.6 g

≧47 kΩ

≦400 pF

Sapphire tube

Contact line naked diamond

Channel difference

Effective tip mass

Cartridge weight

Load impedance

Load capacity

Sensitivity mV/cm/s RMS

Subject to change without notice

Output 5 cm lateral RMS

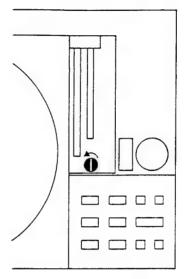
Stylus

Cantilever

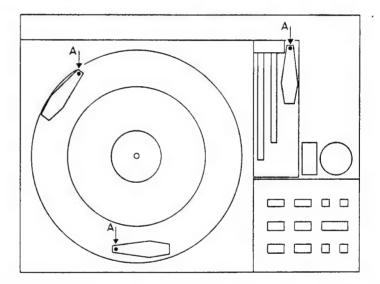
Compliance

MMC2 Cartridge

DISMANTLING Servicing Position Loosen the black cover plate below the pick-up arm assembly by turning the black screw 1/4 turn in the direction of the arrow.

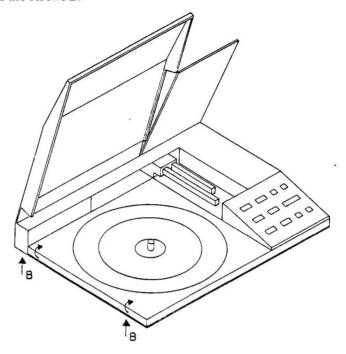


Remove the turntable.



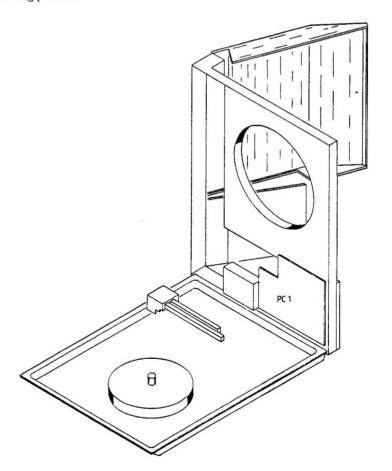
Lift the hooks for the suspension of the train drive/chassis off the suspension springs in the points A.

Remove the screws B.



Push, with due care, the train drive chassis to the right.

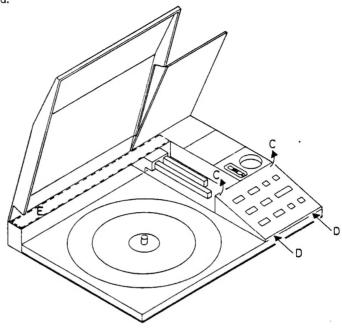
By lifting carefully at the left side of the top part it can now be tilted into the servicing position.



When assembling, make sure the back part (pos. 003) catches the rear edge of the bottom plate completely.

Control Panel

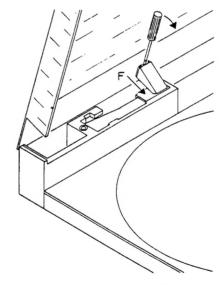
By lifting the rear edge of the control panel/cover (C) the retainer pins may be released.



After the retainer pins at the top edge of the control panel/cover have been loosened, pull the control panel cover in the direction of the arrows C, and then push in the direction of the arrows D.

Dust Cover Spring

Remove cover E.

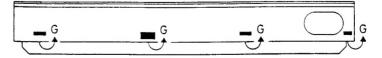


Press the dust cover spring down at the point F while the dust cover remains in its open position.

Insert a screwdriver between the dust cover and the cover hinge.

Lever the screwdriver with care in the direction of the arrow until the cover hinge is released.

Dust Cover



Pull carefully at the rear part in the direction of the arrows G until the rear part and the cover are released.

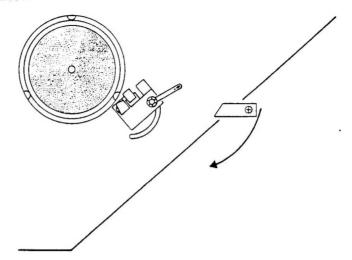
8-1

SERVICETIPS

Turntable Hub

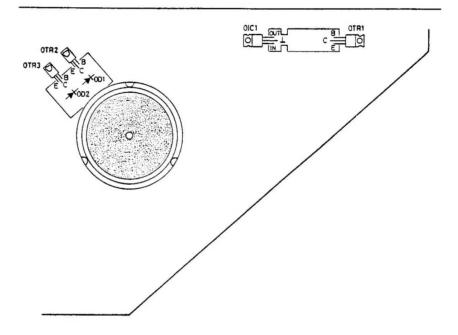
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In order to avoid damage when demounting the turntable hub with the tacho disc, make sure that the opto yoke has been pulled all the way in the direction of the arrow.



Prior to re-mounting the turntable with the tacho disc, make sure that the tacho disc has been cleaned for any dust and dirt, which in certain cases can result in wow.

Layout of Active Components of the Train Drive Chassis



Symbols

	Bang & Olufsen	us
Resistor		
Electrolytic Capacitor	c‡ [→]	4
Fuse		
Lamp	- iL	
Light Emitting Diode (LED)	- ° > 	
Photo Diode (Photosensitive type)		- •
Silicon Controlled Rectifier (SCR)	SCR	-
Varactor		**
Zener Diode		
Darlington Transistor (PNP)	<u> </u>	
Wires Crossing		
Wire Connecting	Male P	Male Female
Ground, 0-point DC	Ţ	Ţ

Insulation Test

Each record player **must** be insulation tested after having been dismantled. The test is to be made when the record player has been reassembled completely and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuited the two pins of the mains plug and connect one of the terminals to the insulation tester.

The other terminal from the insulation tester is connected to the chassis plate near the 7 pol. DIN-socket.

NOTE!

To avoid ruining the record player it is essential that both insulation tester terminals are in really good mechanical contact.

Now slowly turn the voltage control of the insulation tester until a voltage of $1.5-2\,\mathrm{kV}$ is obtained. Hold it there for 1 second, then slowly turn the voltage down again.

At no point during the testing procedure any flash-overs are permissible.